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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/751,776

12/29/2000

Joel D. Medlock

9824-032-999

8748

24341

7590

08/10/2004

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EXAMINER

CHANG, EDITH M

ART UNIT

PAPER NUMBER

2637

7

DATE MAILED: 08/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

09/751,776

**Applicant(s)**

MEDLOCK, JOEL D.

**Examiner**

Edith M Chang

**Art Unit**

2637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 01 June 2004.  
2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.  
3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 14 and 34 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.  
7) ☒ Claim(s) 14 and 34 is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.  
10) ☒ The drawing(s) filed on 07 June 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Specification***

1. The disclosure is objected to because the following informalities:

Page 1, lines 13, 17, 21, 25, and 29: Applicants are required to update the US application serial numbers including the filing date and US patent number if it is available and delete the “To Be Assigned, Attorney Docket No”.

Page 11 line 23: the word “sp0ectrum” is misspelled.

Page 13, line 18: delete the attorney docket number.

Correction is required. See MPEP § 608.01(b).

### ***Claim Objections***

2. Claims 14 and 34 are objected to because of the following informalities:

e): the term “a transform matrix” is suggested changing to “the transform matrix”;

e3): second line: add “wherein N is an integer greater than x”;

f): the term “trough” is suggested changing to “and”.

Appropriate corrections are required.

### ***Allowable Subject Matter***

3. The following is a statement of reasons for the indication of allowable subject matter:

Claim 14 is allowable over prior art of record because the prior art of record does not teach or suggest, alone or in a combination, among other things, at least a method of calculating

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a transform matrix for transforming a field vector from a second field to a field vector in a first field as a whole, the combination of elements and features as claimed, which includes the assembling the first field vector and the new field vector into a transform matrix comprising the steps of e1) providing the first field vector as the bottom row in the transform matrix; e2) providing the new field vector as the next highest row in the transform matrix; and repeating providing step e2) a total of N-2 times for a total of N rows in the transform matrix.

Claim 34 is allowable over prior art of record because the prior art of record does not teach or suggest, alone or in a combination, among other things, at least an electronic device for generating a mask for a linear feedback shift register (LFSR) as a whole, the combination of elements and features as claimed, which includes the assembling the first field vector and the new field vector into a transform matrix comprising the steps of e1) providing the first field vector as the bottom row in the transform matrix; e2) providing the new field vector as the next highest row in the transform matrix; and repeating providing step e2) a total of N-2 times for a total of N rows in the transform matrix.

### *Conclusion*

4. This application is in condition for allowance except for the following formal matters: See paragraph 1 for the specification informalities, and paragraph 2 for claim objections.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

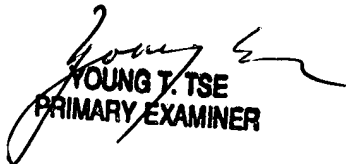
A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edith M Chang whose telephone number is 571-272-3041. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jayanti Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edith Chang  
August 5, 2004

  
YOUNG T. TSE  
PRIMARY EXAMINER